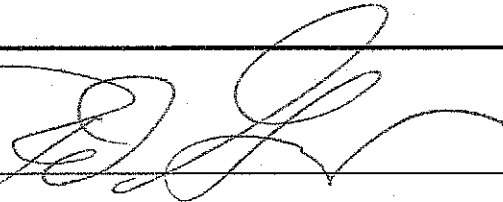


0071938
129618**100 AREA / 300 AREA UNIT MANAGERS' MEETING MINUTES***Groundwater / Remedial Action Unit / Source Operable Units*

January 12, 2006

TRANSMITTAL/APPROVAL

APPROVAL:



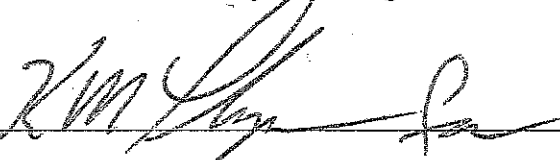
Date

6/8/06

Kevin D. Bazzell, RL (A3-04)

River Corridor Project Manager

APPROVAL:



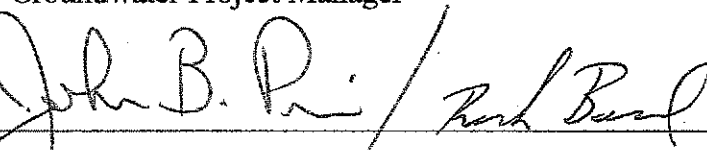
Date

06/08/06

Briant Charbonneau, RL (A6-33)

Groundwater Project Manager

APPROVAL:



Date

6/08/06

John Price / Rick Bond, Ecology (H0-57)
Environmental Restoration Manager

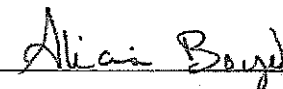
APPROVAL:

Date

Larry Gadbois, EPA (B1-46)

100 Aggregate Area Unit Manager

APPROVAL:



Date

06-08-06

Alica Boyd, EPA (B1-46)

300 Aggregate Area Unit Manager

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100 AREA / 300 AREA UNIT MANAGERS' MEETING MINUTES*Groundwater / Remedial Action Unit / Source Operable Units*

January 12, 2006

DISTRIBUTION**RECEIVED**
JAN 15 2007**DOE-RL**

Kevin Bazzell	A3-04
Briant Charboneau	A6-33
Clifford Clark	A3-04
Rudolph Guercia	A3-04
Roger Pressentin	A3-04
John Sands	A3-04
Douglas (Chris) Smith	A6-38
K (Mike) Thompson	A6-38
Arlene Tortoso	A6-38
Kent Westover	A3-04
Jamie Zeisloft	A3-04

EDMC**ECOLOGY**

Jeff Ayres	H0-57
Rick Bond	H0-57
Dib Goswami	H0-57
Alisa Huckaby	H0-57
John Price	H0-57
Beth Rochette	H0-57
Noel Smith-Jackson	H0-57
Jean Vanni	H0-57

EPA

Alica Boyd	B1-46
Dennis Faulk	B1-46
Larry Gadbois	B1-46

FH

Jane Borghese	E6-35
Ronald Jackson	E6-35
Robert Piippo	H8-12
John Winterhalder	E6-35

PNNL

John Fruchter	K6-96
Mary Hartman	K6-96
Ron Jackson	E6-35
Stuart Luttrell	K6-96
Thomas Naymik	K6-96
Robert Peterson	K6-75

129618

WCH

Kimberley Anselm	H9-02
Tina Blakley	X0-17
Mark A. Buckmaster	X9-07
Dru Butler	H0-19
Stacy Callison	X9-07
Richard Carlson	X0-17
Steven Clark	H9-01
Kelly Cook	X0-17
Franklin Corpus	L6-06
John Darby	L6-06
Steven Dieterle	L1-04
Lorna Dittmer	H9-02
Jack Donnelly	X0-17
Jonathan Fancher	X5-57
Ken Gano	H9-03
Jim Golden	L1-04
Charles Hedel	H0-23
Larry Hulstrom	H0-23
Kim Koegler	L1-07
Roger Landon	H9-03
Deena La Rue	H0-20
Jeffrey Lerch	H0-23
John Ludowise	X0-17
Larry Miller (Rex)	X3-40
Jennifer Ollero	H0-19
Roger Ovink	H9-01
Scott Parnell	X5-57
Mike Schwab	H0-23
Annie Smet	X0-17
Bradley Smith	L1-01
Dean Strom	X3-40
Jill Thomson	H0-23
Steve Weiss	H0-23
Donna Yasek	L1-07

ADMIN RECORD

Debbie Isom - (2 copies)	H6-08
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Please forward distribution list changes to *Sharon Black* WCH (H0-19)

The attached 1/12/06 UMM Meeting Minutes are comprised of the following:

- Attachment 1** - January Agenda and Open Action Items
- Attachment 2** - Attendance Sheet
- Attachment 3** - Meeting Minutes and New Action Items
- Attachment 4** - 100 UMM Groundwater Operable Unit Status
- Attachment 5** - 1/12/06 Email to Mike Thompson-Selection Committee Results
- Attachment 6** - Bob Peterson Input 100 and 300 Groundwater and River Corridor Shoreline Monitoring
- Attachment 7** - Waste Management Plan for the 300-FF-5 Operable Unit: Revised List of Sampling Sites (Appendix A List)
- Attachment 8** - Dean Strom- Update on Burial Ground Sites, Remaining Sites, RPAS Sites and New Orphan sites
- Attachment 9** - Dean Strom – Map of Burial Ground Sites, Remaining Sites, RPAS Sites and New Orphan sites
- Attachment 10** - 300 Area D & D Status
- Attachment 11** - Deferring Removal of Building Foundations and Below Grade Structures 334, for the 334A, and 334 Tank Farm to the 300-FF-2 Remedial Action
- Attachment 12** - FY06 / FY07 Remediation Work Plan
- Attachment 13** - Common Sort for F-1 and F-2 Diagram
- Attachment 14** - End State and Final Closure Risk Assessment Status

Prepared by:

Sharon BlackSharon Black (H0-19)
Admin, WCH Regulatory Integration and Outreach

Date

6/8/06

Concurrence by:

Dru ButlerDru Butler (H0-19)
Director, WCH Regulatory Integration and Outreach

Date

100 AREA / 300 AREA UNIT MANAGERS' MEETING
Groundwater/ Remedial Action Unit / Source Operable Units
January 12, 2006

ATTACHMENT 1

January Agenda and Open Action Items

100 AREA / 300 AREA UNIT MANAGER MEETING AGENDA

Groundwater / Remedial Action Unit / Source Operable Units

January 12, 2006

Washington Closure Hanford (WCH), Hanford Square IV, Room 454

12:30 to 1:30 100 Area Groundwater

- Open Action Items
- 100-KR-4
- 100-NR-2
- 100-HR-3
- Action Items

1:30 to 1:45 300 Area Groundwater

- Open Action Items
- Project Specific Items
- Action Items

1:45 to 2:15 100 Area Field Remediation

- Open Action Items
- 100 Area Common
 - Engineering Design and Closure
- 100-B/C
 - General Status
- 100-K and 118-K-1
 - General Status
- 100-N
 - General Status
- 100-D
 - General Status
- 100-F/100-IU-2/6
 - Combined sorting trench-agreement

2:15 to 2:30 End States and Final Closure Project

- Open Action Items
- 100 B/C Pilot Risk Assessment
- 100/300 Area Risk Assessment
- Columbia River Component
- D Area Orphan Sites
- Integrated Work Plan

2:30 to 2:45 100 Area D4

- Open Action Items
- Status

2:45 to 3:30 300 Area Source and D4

- Open Action Items
- Field remediation (FR)
 - General status
 - 618-10 and 618-11 update
- D4
- Action Items

3:30 to 4:00 Special Topics (if necessary)

NEXT MEETING: February 9, 2006 WCH, Hanford Square IV, Room 454, A & B

100 AREA / 300 AREA UNIT MANAGERS' MEETING
Groundwater / Remedial Action Unit / Source Operable Units

January 12, 2006

AGENDA CONT'D

OPEN ACTION ITEMS FROM 12/8/05 MEETING:

Action: Dennis Faulk (EPA) to check with Nick Ceto about formulating a concurrence letter.

Action: John Price (Ecology) stated that Ecology and DOE will draft initial review permit then invite EPA if concerns over RECLA impact the CERCLA.

Action: Dean Strom (WCH) or John Price (Ecology) noted that 183H permit language needed to be reviewed for technical accuracy by contractors and DOE, and need to meet with Chris Smith and Arlene Tortoso (DOE). Dib Goswami (Ecology) requested copy of permit.

Action: Rob Kirkhouse will talk with Alicia Boyd (EPA) about potential of x-ray usage new sampler

Action: Jack Donnelly (WCH) to set up a meeting to further discuss the use of XRF screening versus sampling every 150 cubic yards to verify waste profiles.

Action: Jill Thompson (WCH) will provide Rudy Guercia (DOE) with the basis for not performing generic sampling in the 300 Area.

100 AREA / 300 AREA UNIT MANAGERS' MEETING
Groundwater/ Remedial Action Unit / Source Operable Units
January 12, 2006

ATTACHMENT 2

Attendance Sheet

100 AREA/ 300 AREA UNIT MANAGER MEETING

Field Remediation, Groundwater and D4

ATTENDANCE RECORD

January 12, 2006

Name	Org	O.U. Role	Phone	Signature
ANSELM, KIMBERLY A.	WCH	100	372-9363	
AYRES, JEFF	ECY	100 / 300 Tech support	372-7881	
BAZZELL, KEVIN D.	DOE-RL	100	373-0463	
BOND, RICK	ECY/DOE	300	372-7885	
BORGHESE, JANE V	FH	100 / 300	373-3804	
BOYD, ALICIA	EPA	300	376-4919	A. Boyd
BUCKMASTER, MARK	WCH	100 Field Remediation Closure	521-2089	
BUTLER, DRU	WCH	100/300 Regulatory Integration	372-9956	
CALLISON, STACY W.	WCH	100 / 300	521-6515	
CARLSON, RICHARD A.	WCH	100 / 300	373-1440	
CHARBONEAU, BRIANT	DOE-RL	100 / 300	373-6137	
CLARK, CLIFFORD E (CLIFF)	DOE-RL	300 Regulatory Support	376-9333	
CLARK, STEVEN W.	WCH	100 / 300	372-9531	Steven W. Clark
COOK, KELLY E.	WCH	100 / 300	373-5275	
CORPUS, FRANKLIN M.	WCH	300	372-9979	
DARBY, JOHN W.	WCH	300 Area Task Lead	373-3008	
DIETERLE, STEVEN	WCH	300	372-9503	
DITTMER, LORNA M.	WCH	100 / 300	372-9664	Lorna M. Dittmer
DONNELLY, JACK W.	WCH	100 / 300	373-9299	
FANCHER, JONATHAN (JON)	WCH	100	373-9556	
FAULK, DENNIS	EPA	100	376-8631	
FRUCHTER, JONATHAN	PNNL	100 / 300	376-3937	
GADBOIS, LARRY	EPA	100	376-9884	
GANO, KENNETH	WCH	100	372-9295	
GOLDEN, JAMES W.	WCH	100 / 300	521-0877	
GOSWAMI, DIB	ECOLOGY	100 Groundwater	372-7902	
GUERCIA, RUDOLPH (RUDY)	DOE-RL	300 D & D	376-5494	
HARTMAN, MARY	PNNL	100 Groundwater	373-0028	
HEDEL, CHARLES W.	WCH	100 / 300	372-2699	
HUCKABY, ALISA D.	ECY	100 Ecology	372-7909	Alisa D. Huckaby
HULSTROM, LARRY	WCH	300	372-9291	
JACKSON, RONALD L.	FH	100 Goundwater	373-3599	Ronald L. Jackson
KOEGLER, KIM J.	WCH	300	373-4736	
LANDON, ROGER J.	WCH	100 / 300	372-9209	
LA RUE, DEENA N.	WCH	100 / 300 Report change control	375-9431	
LERCH, JEFFREY A.	WCH	100 / 300 ESFC	372-9206	

100 AREA/ 300 AREA UNIT MANAGER MEETING

Field Remediation, Groundwater and D4

ATTENDANCE RECORD

January 12, 2006

Name	Org	O.U. Role	Phone	Signature
LUDOWISE, JOHN D.	WCH	100 / 300	373-1045	
LUTTRELL, STUART P.	PNNL	100 Groundwater	376-6023	
MILLER, LARRY (REX)	WCH	100	373-5876	
NAYMIK, THOMAS G	PNNL	300 Groundwater	376-0916	Thomas G. Naymik
OLLERO, JENNIFER F	WCH	100 / 300 Regulatory Integration	372-9620	Jennifer Ollero
OVINK, ROGER W.	WCH	100 / 300 S & D M	375-9426	
PARNELL, SCOTT E.	WCH	300 Field Remediation	373-9975	
PETERSEN, SCOTT W.	DOE-RL	100	372-9126	
PETERSON, ROBERT E.	PNNL	100 / 300 Groundwater	373-9020	Robert E. Peterson
PIIPPO, ROBERT E.	FH	300	373-3285	
PRESSANTIN, ROGER A.	DOE-RL	300	376-1291	
PRICE, JOHN P.	ECY/DOE	100 / 300	372-7921	JBP
ROCHETTE, BETH	ECY	300 Tech support	372-7922	
SANDS, JOHN P.	DOE-RL	100	372-2282	
SCHWAB, MICHAEL R.	WCH	100	372-9407	
SMET, ANN K. (ANNIE)	WCH	100 / 300	373-9683	
SMITH, BRADLEY A.	WCH	300 324 / 327 D4	373-2723	
SMITH, DOUGLAS (CHRIS)	DOE-RL	100 / 300	372-1544	
SMITH-JACKSON, NOEL	ECY	100 / 300	372-7926	
STROM, DEAN	WCH	100 B/C	373-5519	Dean Strom
THOMPSON, K. (MIKE)	DOE-RL	100 / 300	373-0750	Mike Thompson
THOMSON, JILL E.	WCH	100 / 300	372-9200	
TORTOSO, ARLENE C.	DOE-RL	100	373-9631	Arlene Tortoso
VANNI, JEAN	ECY	100 Lead Regulatory Permits	372-7930	Jean Vanni
WEISS, STEPHEN G.	WCH	100/300 Lead Tech Risk Assess	372-9495	
WESTOVER, KENT	DOE-RL	100	376-3967	
WINTERHALDER, JOHN A.	FH	100	372-8144	
YASEK, DONNA M.	WCH	100 / 300 D & D	372-9978	
ZEISLOFT, JAMIE	DOE-RL	100	372-0188	
Lobos, Rod	EPA	100 - F	376-3749	Rod Lobos
Hartman, Mary	PNNL	Groundwater	373-0028	Mary Hartman
Sheen, Jacqueline	ECY	100 GW	372-7295	Jacqueline Sheen
SHEVEY, GIMON	OREGON		(541) 963-0853	Gimon Shevey
BLAKLEY, TINA	WCH	Field Rem - 100	372-2714	Tina Blakley
Kemp, C.J.	WCH	Air Emissions	946-0707	CJ Kemp

100 AREA / 300 AREA UNIT MANAGERS' MEETING
Groundwater/ Remedial Action Unit / Source Operable Units
January 12, 2006

ATTACHMENT 3

Meeting Minutes and New Action Items

100 AREA / 300 AREA UNIT MANAGER'S MEETING MINUTES*Groundwater/ Remedial Action Unit / Source Operable Units***JANUARY 12, 2006****ADMINISTRATIVE:**• **Next 100/300 Area Unit Manager Meeting (UMM)**

Next meeting will be held on February 9, 2006, at Washington Closure Hanford (WCH), Hanford Square IV, Room 454 A&B, from 1:00 to 4:30 p.m.

• **Columbia River Allocation**—Presented by Mike Thompson, Department of Energy, Richland (RL) -- See *Attachment 5*.

Congress has budgeted an additional \$10M for the Hanford Columbia River cleanup. RL had formed a selection committee to develop a tentative project list based on priorities that will be finalized and presented within the next two weeks.

• **Tribal Participation at UMM**

Dennis Faulk (EPA) announced he had received a request for Tribal participation at the UMM. A recommendation was made for Dennis to send an invitation to the Tribes with a provision for conducting "closed sessions" and adding "breach of confidentiality" clause. Dennis will discuss this request further with the Tri-Parties and add it to the Inter-Agency Management Integration Team (IAMIT) agenda.

GROUNDWATER:• **Review of Open Action Items**

- **Action** (100 Area Groundwater, 100-NR-2) Dennis Faulk (EPA) to check with Nick Ceto (EPA) about formulating concurrence letter.

Status Closed. Dennis Faulk(EPA) stated Change Package being formulated.

- **Action** (100 Area Groundwater, 100-HR-3) John Price (Ecology) noted that 183-H permit language needed to be reviewed for technical accuracy by contractors, and DOE.

Status Need to meet with Chris Smith (RL) and Arlene Tortoso (RL).

- **Action** (100 Area Groundwater, 100-NR-2) John Price (Ecology) and DOE to review initial draft of the Hanford Facility Resource Conservation and Recovery Act of 1976 (RCRA) Permit.

Status Closed. Initial draft review of the RCRA Permit has been initiated. Ecology has invited EPA to identify/discuss any concerns over potential impacts from RCRA/ Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) integration.

• **100-NR-2 Groundwater Operable Unit (OU)** -- Status provided in *Attachment 4*.

DOE wants Fluor and WCH to incorporate into baseline and River Corridor Risk Assessment. John Price (Ecology) commented on the need for a total River Corridor Contract Risk Assessment.

Seeing high chromium levels in plants at other sites, as well as elevated levels of lead in mice near strontium areas. Oxygen depletion; diesel spill, endangered species need to be addressed.

Dennis Faulk (EPA) recommended the N Area Treatability test plan be sent for public comment.

- 100-KR-4 Groundwater OU -- Status provided in *Attachment 4*.
- 100-HR-3 Groundwater OU -- Status provided in *Attachment 4*.
- 100-BC-5 Groundwater OU Potential chromium issue at the 100-C-7 waste site (as identified in the draft CERCLA 5-Year ROD Review report). As the waste site is remediated, additional wells may have to be added to ensure protection of the groundwater. For the source, WCH is evaluating costs and schedules for alternatives. Dennis Faulk (EPA) wants the source (WCH) and groundwater (FH and PNNL) to coordinate efforts to determine how much source term is in the deep zone and how will it affect the groundwater. Rex Miller and Rich Carlson (both WCH) to discuss possibility for an ESD or ROD Amendment and coordinate with Arlene Tortoso (RL) and Mary Hartmann (PNNL).
- 300-FF-5 Groundwater OU -- Status provided in *Attachment 6*.

Submitted "Waste Management Plan for the 300-FF-5 Operable Unit: Revised List of Sampling Sites (Appendix A List)." -- See *Attachment 7*.

Jean Vanni (Ecology) to extract information for RCRA Permit to satisfy the RCRA/CERCLA requirements. John Price (Ecology) to provide a copy.

100 AREA FIELD REMEDIATION

- Review of Open Action Items - None
- 100 Area - Engineering Design - Status provided by Tina Blakely (WCH).
 - 100-D Area - Burial Ground Remaining Sites design-currently being finalized. The safety basis document will be submitted in approximately two weeks and will include the 100-H Area Burial grounds as well as 100-D.
- 100 Area - Engineering Closure - Status provided by Lorna Dittmer (WCH).
 - 100-D Area - Sampling will be completed this week, which includes the spillways. Evaluations of the sampling results are currently being performed. A meeting is scheduled for January 31, 2006, to review with Ecology and RL the sites that are passing.

- **100-B/C:** Lorna Dittmer (WCH) wants to discuss the oil tank found at 100-B-20 with Dennis Faulk(EPA) and John Price (Ecology). She would like to get authorization to crush the tank and dispose of it at the Environmental Restoration Disposal Facility (ERDF). This will be discussed after this UMM. John Price (Ecology) indicated that Ecology does not have to approve underground storage tank (UST) sample plans, but instead sends a letter indicating closure after the cleanup report is provided to Ecology. Letter from Ecology to be attached to the MP-14 Waste Site Reclassification Form. Also need DOE to add scope to WCH contract authorizing tank removal, waste treatment and disposal.
- **100-H Area - Confirmatory** sample designs (work instructions) have been started. John Price (Ecology) requested a schedule of the 100-H area sites and dates the documents will be delivered to him.
- **100-NR-1** - Remedial Design Report/ Remedial Action Work Plan (RDR/RAWP) internal review comments are currently being incorporated. The document is slated for DOE and regulatory review early in February.
- **100-B/C**—Dean Strom (WCH) reported .-- Status provided in *Attachments 8 and 9*.
 - **118-B-1 Burial Ground-** Excavation is complete and Laser-Assisted Ranging and Data System (LARADS) survey is being conducted. A few hot spots were identified so additional material will be removed. Also working on a way to remove the compressed cylinders from the site. The Richland Bomb Squad may be used to resolve issues with compressed gas cylinders and to set charges.
 - **118-C-1 Burial Ground-** Excavating deeper than design indicated and chasing debris to native soil.
 - **126-B-3 Remaining Site-** The east staging pile area (coal ash) still needs to be remediated. Dean wants to discuss with and get concurrence from DOE and EPA regarding the sampling approach for the east staging pile area to support closeout. This will be discussed after this UMM.
 - **100-B-1 Remaining Site-** A discussion is needed on the staging pile due to the pesticide issue. It is believed that the pesticide occurrence is a result of the historic use of pesticides at the Hanford site. This will be discussed after this UMM.
 - **Miscellaneous-** There was some discussion and concern regarding completion of the 100-B/C Area December 2006 milestone with anomalous waste and 100-C-9 south culvert issues still outstanding. No decisions were made or actions assigned, however.
 - **Staging Piles Time Extension-** Jack Donnelly (WCH) indicated a request would be submitted for EPA's approval to grant a time extension for the staging piles at 100-B/C. Jack wanted to know how to document the approval (e.g. formal letters, emails). EPA suggested the request/agreement be documented in the NPL Agreement Form. -- See *New Action Items*.

- 100-F, K, and Group 4

- 100-K and 118-K-1 - General Status presented by Mark Buckmaster (WCH). No Actions.
- 100-D Area -General Status presented by Mark Buckmaster(WCH). No Actions.
- 100 F Area -General Status presented by Mark Buckmaster (WCH) -- Status provided in *Attachment 13*. No Actions.

100-IU-2/6 - General status presented by Mark Buckmaster (WCH)

- 100-N - General Status Provided by Jon Fancher (WCH). No Actions.

END STATE AND FINAL CLOSURE

- Review of Open Action Items—None

- Sampling -- Status in *Attachment 14*.

Safely completed installation of equipment to evaluate pore-water, clams, and macroinvertebrates in the Columbia River. Continued groundwater sampling. Will begin surface water/pore-water/sediment sampling in the near-shore on Monday, and sculpin sampling will occur in January and February.

John Price (Ecology) stated a need for the 100-N Area ecological evaluation to transition to John Sands (RL) and River Corridor Risk Assessment in the baseline.

- B/C Pilot Risk Assessment -- Status provided in *Attachment 14*.

Risk Assessment Report Preparing Draft B 100-B/C Pilot Risk Assessment Report, with an accompanying technical memorandum explaining the sample preparation issue, overview of potential impacts, and the path forward. Final results will appear in the 100/300 Area Risk Assessment Report.

Comment Disposition Comment matrix to be transmitted next week.

- Columbia River Component -- Status provided in *Attachment 14*.

Data compilation summary will be available at the end of January.

Continuing to evaluate data for the purpose of bounding the risk assessment scope for the Columbia River Component. Draft evaluation and scoping report is scheduled to be submitted to RL in April 2006.

- Source and Groundwater Assessment Integration Strategy -- Status provided in *Attachment 14*.

Draft is in progress, and communication will continue to ensure there is continued agreement on the strategy and content of the document.

100 AREA D4

- 100-N - Status Provided. No Actions.
- 100-K - Status Provided. No Actions.

300 AREA FIELD REMEDIATION

- Review of Open Action Items
 - **Action** (300Area Source and D4) Jack Donnelly (WCH) to schedule a meeting with Alicia Boyd (EPA) to discuss the use of X-Ray Fluorescence (XRF) screening versus sampling every 150 cubic yards to verify waste profiles.
Status Action not discussed at the meeting.
 - **Action** (D4) Jill Thomson (WCH) to get back with Rudy Guercia (DOE) with regards to why there is no basis to support the theory of a general airborne contamination spread across the 300 Area.
Status Action not discussed at the meeting
- 300 Area Field Remediation -- Status provided in *Attachment 12*.
- 300 Area Source
- 300 Area D4 -- Status provided in *Attachment 10*.

Donna Yasek (WCH) submitted "Deferring Removal of Building Foundations and Below Grade Structures for the 334, 334A, and 334 Tank Farm to the 300-FF-2 Remedial Action," to the UMM Meeting Minutes -- See *Attachment 11*.

NEW ACTION ITEMS:

- (100 Area Field Remediation, 100B/C) **Jack Donnelly (WCH)** is to prepare a National Priorities List (NPL) Agreement Form requesting a time extension for the staging piles at 100-B/C
- **Jack Donnelly (WCH) and Steve Clark (WCH)** are to provide the basis for 300 Area cleanup levels for inclusion into the Remedial Design/Remedial Action (RD/RA) plan. Presently there is no explanation for the numbers as these were removed from the Remedial Design Report (RDR) as requested by Mike Goldstein (EPA).
- **Jennifer Ollero (WCH)** is to identify a solution for disconnect between Brown Bag meeting and the monthly UMMs regarding action items and issues.

100 AREA / 300 AREA UNIT MANAGERS' MEETING
Groundwater/ Remedial Action Unit / Source Operable Units
January 12, 2006

ATTACHMENT 4

100UMM Groundwater Operable Unit Status

100 UMM
Groundwater Operable Unit Status
January 12, 2006

100-NR-2 Groundwater OU-Russ Fabre

- Remediation Treatment Status
 - The pump and treat system operated at ~60 gpm.
 - Average Sr-90 removal efficiency was > 90% for the period.
- Ecological Impact Assessment
 - Comments on the review draft submitted to Ecology on October 31 were received. Work is proceeding on disposition of Ecology's comments. No other comments have been received.
 - Preliminary plans for a follow-up workshop were made to discuss the occurrence and significance of digestive tract cellular abnormalities in Asian clam tissue (i.e., from locations where the highest strontium-90 concentrations in near-shore groundwater occur). Similar clam tissue abnormalities have been observed where high hexavalent chromium concentrations occur (e.g. D Area).
- Apatite Treatability Testing Status
 - The treatability test plan for installation of pilot injection test and a 300 ft barrier during 2006 was completed and submitted to Ecology.
 - The bid package for 10 injection wells for a 300 ft barrier installation was released.
 - Testing of the Eurotip drilling tool for potential use at 100-N was begun. Initial results were favorable for installing low cost, small-diameter (1-inch ID) wells that may be useful for performance monitoring purposes

100-KR-4 Groundwater OU-Ron Jackson

- Remediation Treatment Status
 - For the period November 28, 2005- January 01, 2006:
 - Total average flow through the system was 247 gpm. Well 199-K-126 was down for approximately a week due to extreme cold weather conditions in December.
 - System operated at 98 percent for the reporting period.
 - Average influent hexavalent chromium concentration was 0.051 mg/L.
- Calcium Polysulfide Treatability Test Status
 - Hexavalent chromium continues to remain low (e.g. below the RAOs of 0.020 mg/L) at the 100-KR-4 treatability test site.
 - Incorporating internal review comments on treatability test report. Report for regulator review due on March 1, 2005 or sooner.

100 UMM
Groundwater Operable Unit Status
January 12, 2006

- KW Groundwater Remediation
 - Planning is underway to address the chromium plume in the KW Reactor Area. The plan is to design an IX treatment system in FY06 and to install the treatment system in FY07.
 - Four wells are planned to help define the plume and be used to support the pump and treat system. These well are identified on the draft M-24 list.
 - FH would like to meet with EPA to discuss the KW Groundwater Remediation work scope, including new wells.

100-HR-3 Groundwater OU-Ron Jackson

- Remediation Treatment Status
 - For the period November 28, 2005-January 01, 2006:
 - On December 2, the D transfer shut down resulting in frozen transfer lines and returned to service on December 26, 2005. No leaks of the transfer lines were observed during restart. During this same time, extracted groundwater from the 100-H area continued to be treated.
 - Total average flow through the system was approximately 117 gpm.
 - Average influent hexavalent chromium concentration for H Area was 0.032 mg/L.
 - Average influent hexavalent chromium concentration for D Area was 0.155 mg/L.
- DR-5 Treatment Status
 - For the period November 28, 2005-January 01, 2005:
 - System operated at greater than 95 percent for the reporting period.
 - Total average flow of approximately 43 gpm.
 - The average influent hexavalent chromium concentration was 0.784 mg/L.
- Summary of ISRM Status
 - PNNL-15573, "Experimental Study of Micron-Size Zero-Valent Iron Emplacement in Permeable Porous Media Using Polymer-Enhanced Fluids," has been published. The document is available for download from the PNNL external publications website (<http://www.pnl.gov/main/publications/>).
 - Reviewing final report on results from the surface geophysical survey (SP and IP) to help map the chromium in the groundwater and the reduced zone.
 - Collected and analyzed samples from the ISRM problem wells during the last week of December, 2005.
 - Briefing to Ecology on the ISRM Summary Report is planned during the week of January 2nd, 2006.
- D-Area Groundwater Plume Definition
 - Three wells are planned in FY06 to be drilled in the vicinity of the 190-DR clear wells to help define the up-gradient portion of the chromium groundwater plume. These wells are identified on the draft M-24 list. FH would like to meet with Ecology to discuss the FY06 D Area drilling.
- 183-H Monitoring Well Network-Replacement well for 199-H-7
 - RCRA Permit Modification Notification Form was signed by Ecology on January 10, 2006 to remove 199-H4-7 from the groundwater monitoring network and replaced it with well 199-H4-8.

100 AREA / 300 AREA UNIT MANAGERS' MEETING
Groundwater/ Remedial Action Unit / Source Operable Units
January 12, 2006

ATTACHMENT 5

1/12/06 Email to Mike Thompson -Selection Committee Results

Thompson, K M (Mike)

From: Thompson, K M (Mike)
Sent: Thursday, January 12, 2006 8:22 AM
To: Ceto, Nicholas; Hedges, Jane
Cc: Waisley, Sandra
Subject: FW: Selection Committee Results

Jane/Nick - **Thank you** for spending the full day with the selection committee yesterday. I know both of you had numerous commitments that competed for this time. Your input on the proposals were valuable in the selection process. I am certain you will be pleased with the results. The selected projects focus on uranium in the 300 Area groundwater, Sr-90 in the 100-N groundwater, chromium in the 100 Area groundwater, carbon tetrachloride in 200 West Area and technetium-99 in the deep vadose zone in the 200 Area.

The results will be presented to DOE-HQ management and the selected proposals will go through another review before the funds become available. I will, concurrently, brief RL management and inform ORP, HAB, tribes etc. Please keep in mind, RL and HQ management can change the outcome.

The selected proposals will, over the next two work weeks (Jan 13-27), be developed into full proposals, following a standardized template. A small subgroup of the proposals will undergo peer review. Most of the selected projects have a history of peer review by either the ITRD, EMSP, etc., so further peer review is deemed to be unnecessary.

Here's the list of proposals selected for funding, subject to DOE management review and concurrence. This is from my notes – There will be a more detailed set of notes out by next week.

SELECTED:

- | | |
|---|--------|
| • 300 Area polyphosphate treatability test to immobilize uranium | \$1.6M |
| • Design and test infiltration of phosphate/apatite technology for Sr-90 at 100-N | \$0.8M |
| • Perform treatability test for phytoremediation for Sr-90 at 100-N | \$0.4M |
| • Refine location of source(s) of Chromium at 100-D | \$0.8M |
| • Inject micron-sized iron into deteriorating portions of the ISRM | \$0.9M |
| • Test electrocoagulation at 100-D (Initial phase of the proposal) | \$2.2M |
| • Calcium polysulfate upgradient of ISRM (Initial phase of the proposal) | \$1.0M |
| • Nanoparticle metal phosphate barrier for Tc-99 (Initial phases only) | \$0.7M |
| • Follow-up work to develop CCl-4 conceptual model | |
| o Demonstrate abiotic degradation of CCl-4 | \$0.3M |
| o Follow-up to Vista work (new proposal) | \$0.8M |
| • Total | \$9.5M |

The funding allocations are based on rough order of magnitude (ROM) estimates and will be subject to change as we develop the full proposal packages. In some cases the technologies will be tested from these funds and the Site will be responsible for full-scale implementation.

100 AREA / 300 AREA UNIT MANAGERS' MEETING
Groundwater/ Remedial Action Unit / Source Operable Units
January 12, 2006

ATTACHMENT 6

Bob Peterson input 100 and 300 Groundwater and
River Corridor Shoreline Monitoring

100 and 300 Area Combined UMM Agenda for January 12, 2006 Meeting

(Bob Peterson input, 373-9020)

100 Area Groundwater

- K-Basins Monitoring
 - Conditions consistent with previous trends and expectations. Tritium concentration trends near each basin are illustrated in the attached figures.
 - Most recent sampling event was just completed (i.e., January 6 and 10, 2006); continuing monthly sampling near KE Basin while sludge removal activities are underway.
 - Quarterly report distribution list—additions or deletions??
 - Schedule for excavation and demolition of KE Basin has been extend, so more time available to plan for decommissioning wells installing replacement facilities for long-term monitoring.

300 Area Groundwater

- Project Specific Items: Operations and Maintenance Requirements
 - Results of June 2005 semiannual sampling event are consistent with previous trends and expectations; most recent sampling occurred in late December 2005.
 - Aquifer tubes were sampled in September and results are available.
 - Draft revised sampling and analysis plan has been prepared for the 300-FF-5 Operable Unit; comments from internal review are being incorporated.
- Project Specific Items: Phase III Feasibility Study and Limited Field Investigation
 - Work Plan for LFI has been distributed for concurrence by regulatory agencies.
 - Drilling of characterization boreholes is expected to begin in late-January/early-February 2006, followed by the direct-push task.
 - Proposal to perform a uranium treatability test involving injection of polyphosphate has been prepared. Treatability testing would run concurrently with limited field investigation.

River Corridor Shoreline Monitoring

- Aquifer Tubes
 - Completed sampling at 300 Area, 100-H, 100-F, and part of Townsite.
 - Current field activities: 100-D
 - Subsequent: 100-K, 100-B, and again 300 Area
- Riverbank Springs
 - Most were collected during the past months during SESP field activities

Figure 1b. Tritium in Groundwater Near the KE Basin (DWS is 20,000 pCi/L)

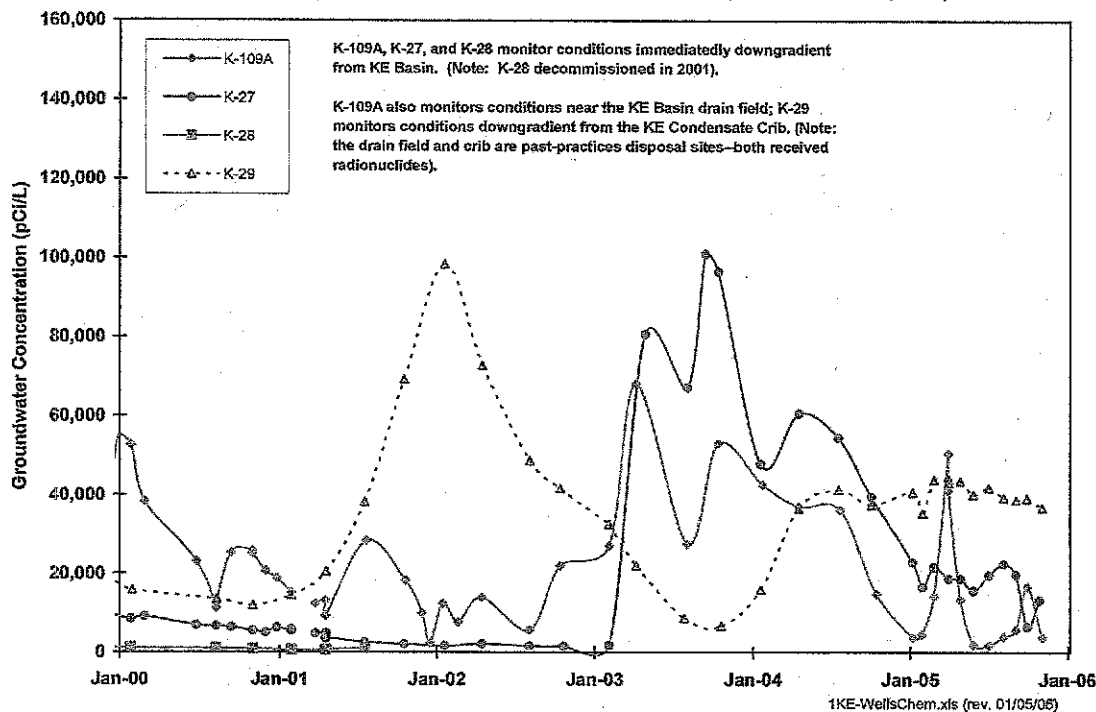
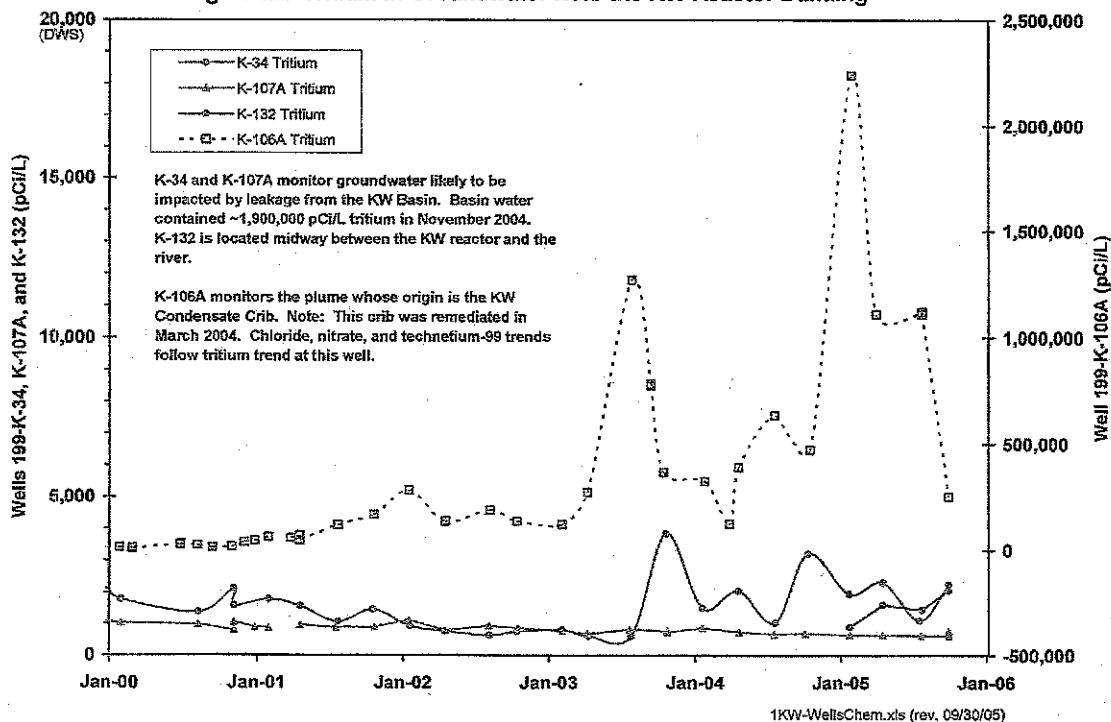


Figure 2a. Tritium in Groundwater Near the KW Reactor Building



100 AREA / 300 AREA UNIT MANAGERS' MEETING
Groundwater/ Remedial Action Unit / Source Operable Units
January 12, 2006

ATTACHMENT 7

Waste Management Plan for the 300-FF-5 Operable Unit:
Revised List of Sampling Sites (Appendix A List)

DOE/RL-2000-56

Rev. 1

OU: 300-FF-5

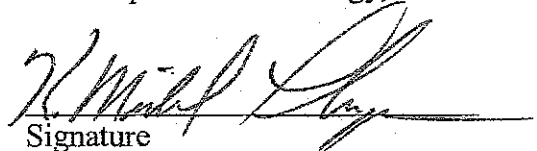
TSD: N/A

ERA: N/A

CONCURRENCE PAGE

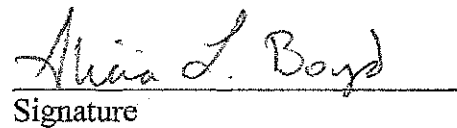
Title: Waste Management Plan for the 300-FF-5 Operable Unit:
Revised List of Sampling Sites (Appendix A List)

Concurrence: K. M. Thompson
U.S. Department of Energy, Richland Operations Office


Signature

12/15/05
Date

A. L. Boyd
U.S. Environmental Protection Agency


Signature

12-16-2005
Date

Attachment:

APPENDIX A: 300-FF-5 OPERABLE UNIT MONITORING SITES (updated as of
December 9, 2005)

DOE/RL-2000-56

Rev. 1

OU: 300-FF-5

TSD: N/A

ERA: N/A

Title: Waste Management Plan for the 300-FF-5 Operable Unit: Revised List of Sampling Sites
(Appendix A List, updated December 9, 2005)

DISTRIBUTION

U.S. Department of Energy, Richland Operations Office

KM Thompson

U.S. Environmental Protection Agency, Richland Office

AL Boyd

Washington State Department of Ecology, Richland Office

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Pacific Northwest National Laboratory

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BF Ford

MA Baechler

JV Borghese

GG Kelty

LC Swanson

D Todak

JA Winterhalder

CS Wright

APPENDIX A
300-FF-5 OPERABLE UNIT MONITORING SITES
(Shaded cells indicate sites added to/deleted from the list by the change)

300-FF-5 Sub-Region	Well ID or Site ID ^(a)	Well or Site Name	Site Type
300 Area	A5018	399-1-1	Well
300 Area	A5035	399-1-2	Well
300 Area	A5036	399-1-3	Well
300 Area	A5037	399-1-4	Well
300 Area	A5039	399-1-6	Well
300 Area	A5040	399-1-7	Well
300 Area	A5041	399-1-8	Well
300 Area	A5042	399-1-9	Well
300 Area	A5411	399-1-10A	Well
300 Area	A8064	399-1-10B	Well
300 Area	A5020	399-1-11	Well
300 Area	A5021	399-1-12	Well
300 Area	A5412	399-1-13A	Well
300 Area	A8065	399-1-13B	Well
300 Area	A5413	399-1-14A	Well
300 Area	A8066	399-1-14B	Well
300 Area	A5024	399-1-15	Well
300 Area	A5025	399-1-16A	Well
300 Area	A5026	399-1-16B	Well
300 Area	A5027	399-1-16C	Well
300 Area	A5028	399-1-17A	Well
300 Area	A5029	399-1-17B	Well
300 Area	A5030	399-1-17C	Well
300 Area	A5031	399-1-18A	Well
300 Area	A5032	399-1-18B	Well
300 Area	A5033	399-1-18C	Well
300 Area	A8068	399-1-20	Well
300 Area	A5414	399-1-21A	Well
300 Area	A5415	399-1-21B	Well
300 Area	A5000	399-1-23	Well
300 Area	A5043	399-2-1	Well
300 Area	A5044	399-2-2	Well
300 Area	A5045	399-2-3	Well

Supplement to DOE/RL-2000-56 Rev. 1 (List Updated December 9, 2005)

300-FF-5 Sub-Region	Well ID or Site ID ^(a)	Well or Site Name	Site Type
300 Area	A5046	399-3-1	Well
300 Area	A8071	399-3-2	Well
300 Area	A8072	399-3-3	Well
300 Area	A5049	399-3-6	Well
300 Area	A8076	399-3-8	Well
300 Area	A5051	399-3-9	Well
300 Area	A5047	399-3-10	Well
300 Area	A8077	399-3-11	Well
300 Area	A5048	399-3-12	Well
300 Area	C4999	399-3-18	Well
300 Area	C5001	399-3-19	Well
300 Area	C5002	399-3-20	Well
300 Area	A5052	399-4-1	Well
300 Area	A5055	399-4-7	Well
300 Area	A5056	399-4-9	Well
300 Area	A5053	399-4-10	Well
300 Area	A5054	399-4-11	Well
300 Area	A8089	399-4-12	Well
300 Area	A5057	399-5-1	Well
300 Area	A8091	399-5-2	Well
300 Area	A8094	399-5-4B	Well
300 Area	A5058	399-6-1	Well
300 Area	A8095	399-6-2	Well
300 Area	A5059	399-8-1	Well
300 Area	A5060	399-8-2	Well
300 Area	A5061	399-8-3	Well
300 Area	A8096	399-8-4	Well
300 Area	A5416	399-8-5A	Well
300 Area	A5417	399-8-5B	Well
300 Area	A5418	399-8-5C	Well
300 Area	C4855	699-S20-E10	Well (new 2005)
300 Area	A5422	699-S22-E9A	Well
300 Area	A5423	699-S22-E9B	Well
300 Area	A5424	699-S22-E9C	Well
300 Area	A5425	699-S27-E9A	Well
300 Area	A5426	699-S27-E9B	Well

300-FF-5 Sub-Region	Well ID or Site ID ^(a)	Well or Site Name	Site Type
300 Area	A5427	699-S27-E9C	Well
300 Area	A5371	699-S27-E14	Well
300 Area	A5429	699-S29-E16A	Well
300 Area	A5430	699-S29-E16B	Well
300 Area	A5431	699-S29-E16C	Well
300 Area	A9209	699-S30-E14	Well
300 Area	A5377	699-S30-E15A	Well
300 Area	A9210	699-S30-E15B	Well
316-4/618-10	A9152	699-S6-E4A	Well
316-4/618-10	A9153	699-S6-E4B	Well
316-4/618-10	A9154	699-S6-E4C	Well
316-4/618-10	A9788	699-S6-E4CP	Well
316-4/618-10	B2831	699-S6-E4CS	Well
316-4/618-10	A5406	699-S6-E4D	Well
316-4/618-10	A9155	699-S6-E4E	Well
316-4/618-10	A9156	699-S6-E4F	Well
316-4/618-10	A9157	699-S6-E4G	Well
316-4/618-10	A9158	699-S6-E4H	Well
316-4/618-10	A9159	699-S6-E4J	Well
316-4/618-10	C4072	699-S6-E4K	Well
316-4/618-10	C4073	699-S6-E4L	Well
316-4/618-10	A9163	699-S6-E16A	Well
316-4/618-10	A9164	699-S6-E16B	Well
316-4/618-10	A9181	699-S11-E12A	Well
618-11	A8124	699-2-E14	Well
618-11	A8246	699-12-2A	Well
618-11	C3253	699-12-2C	Well
618-11	C3256	699-13-0A	Well
618-11	A8260	699-13-1A	Well
618-11	A8261	699-13-1B	Well
618-11	A8262	699-13-1C	Well
618-11	C3251	699-13-1D	Well
618-11	C3798	699-13-1E	Well
618-11	C3254	699-13-2D	Well
618-11	B2540	699-13-3A	Well
618-11	A5070	699-14-E6T	Well

300-FF-5 Sub-Region	Well ID or Site ID ^(a)	Well or Site Name	Site Type
618-11	A8318	699-15-15B	Well
618-11	A8338	699-15-E13	Well
618-11	A5085	699-20-E12	Well
618-11	C3071	ENW-MW1	Well
618-11	C3072	ENW-MW2	Well
618-11	C3073	ENW-MW3	Well
618-11	C3074	ENW-MW4	Well
618-11	C3075	ENW-MW5	Well
618-11	C3076	ENW-MW6	Well
618-11	C3077	ENW-MW7	Well
618-11	C3078	ENW-MW8	Well
618-11	C3079	ENW-MW9	Well
618-11	C3080	ENW-MW31	Well
618-11	C3081	ENW-MW32	Well
300 Area	DPT-1	DPT-1	Temporary borehole
300 Area	DPT-2	DPT-2	Temporary borehole
300 Area	DPT-3	DPT-3	Temporary borehole
300 Area	DPT-4	DPT-4	Temporary borehole
300 Area	DPT-5	DPT-5	Temporary borehole
300 Area	DPT-6	DPT-6	Temporary borehole
300 Area	DPT-7	DPT-7	Temporary borehole
300 Area	DPT-8	DPT-8	Temporary borehole
300 Area	DPT-9	DPT-9	Temporary borehole
300 Area	DPT-10	DPT-10	Temporary borehole
300 Area	DPT-11	DPT-11	Temporary borehole
300 Area	DPT-12	DPT-12	Temporary borehole
300 Area	DPT-13	DPT-13	Temporary borehole
300 Area	DPT-14	DPT-14	Temporary borehole
300 Area	DPT-15	DPT-15	Temporary borehole
300 Area	C4347	AT-3-1-S	Aquifer tube
300 Area	C4346	AT-3-1-M	Aquifer tube
300 Area	C4348	AT-3-1-D(2)	Aquifer tube
300 Area	C4345	AT-3-1-D(1)	Aquifer tube
300 Area	C4350	AT-3-2-S	Aquifer tube
300 Area	C4349	AT-3-2-M	Aquifer tube
300 Area	C4642	300SPR9A-19cm	Aquifer tube

300-FF-5 Sub-Region	Well ID or Site ID ^(a)	Well or Site Name	Site Type
300 Area	C4643	300SPR9A-86cm	Aquifer tube
300 Area	C4644	300SPR9A-142cm	Aquifer tube
300 Area	C4741	300-3-3C-409cm	Aquifer tube
300 Area	C4742	300-3-3C-589cm	Aquifer tube
300 Area	C4646	300-3-3B-376cm	Aquifer tube
300 Area	C4740	300-3-3B-518cm	Aquifer tube
300 Area	C4690	300-3-3A-124cm	Aquifer tube
300 Area	C4645	300-3-3A-410cm	Aquifer tube
300 Area	C4739	300-3-3A-579cm	Aquifer tube
300 Area	C4353	AT-3-3-S	Aquifer tube
300 Area	C4352	AT-3-3-M	Aquifer tube
300 Area	C4351	AT-3-3-D	Aquifer tube
300 Area	C4356	AT-3-4-S	Aquifer tube
300 Area	C4355	AT-3-4-M	Aquifer tube
300 Area	C4354	AT-3-4-D	Aquifer tube
300 Area	C4358	AT-3-5-S	Aquifer tube
300 Area	C4357	AT-3-5-M	Aquifer tube
300 Area	C4361	AT-3-6-S	Aquifer tube
300 Area	C4360	AT-3-6-M	Aquifer tube
300 Area	C4359	AT-3-6-D	Aquifer tube
300 Area	C4364	AT-3-7-S	Aquifer tube
300 Area	C4363	AT-3-7-M	Aquifer tube
300 Area	C4362	AT-3-7-D	Aquifer tube
300 Area	C4367	AT-3-8-S	Aquifer tube
300 Area	C4366	AT-3-8-M	Aquifer tube
300 Area	C4365	AT-3-8-D	Aquifer tube
300 Area	S1170 ^(a)	Spr-1	Riverbank spring
300 Area	S1171 ^(a)	Spr-2	Riverbank spring
300 Area	S1172 ^(a)	Spr-3	Riverbank spring
300 Area	S1173 ^(a)	Spr-4	Riverbank spring
300 Area	S1174 ^(a)	41-1	Riverbank spring
300 Area	S1175 ^(a)	Spr-5	Riverbank spring
300 Area	S1176 ^(a)	Spr-6	Riverbank spring
300 Area	S1177 ^(a)	42-1	Riverbank spring
300 Area	S1178 ^(a)	S3-42-2 (Spr-7)	Riverbank spring
300 Area	S1179 ^(a)	Spr-8	Riverbank spring

300-FF-5 Sub-Region	Well ID or Site ID ^(a)	Well or Site Name	Site Type
300 Area	S1180 ^(a)	S3-DR42-2 (Spr-9)	Riverbank spring
300 Area	S1181 ^(a)	Spr-10	Riverbank spring
300 Area	S1182 ^(a)	Spr-11	Riverbank spring
300 Area	S1183 ^(a)	Spr-12	Riverbank spring
300 Area	S1184 ^(a)	Spr-13	Riverbank spring
300 Area	S1185 ^(a)	Spr-14	Riverbank spring
300 Area	S1186 ^(a)	43-2	Riverbank spring
300 Area	S1187 ^(a)	43-3	Riverbank spring
(a) Site ID's for riverbank springs are proposed, i.e., they are not in HEIS databases as of the date of this change.			

100 AREA / 300 AREA UNIT MANAGERS' MEETING
Groundwater/ Remedial Action Unit / Source Operable Units
January 12, 2006

ATTACHMENT 8

Dean Strom –Update on Burial Ground Sites, Remaining Sites,
RPAS Sites and New Orphan Sites

1/12/2005

Burial Grounds:

118-B-1:

Excavation is complete. Conducting LARADS.
Working on a way to remove the compressed cylinders from the site.

118-C-1:

Excavating and loading out material.

118-B-6:

Close out sampling is completed.

Remaining Sites:

126-B-3:

East staging pile area still needs to be remediated.

128-B-3:

The excavation on the side slope is complete. Re-veg at risk.

100-B-1:

Staging pile discussion needed.

RPAS:

100-C-9:1N Box Culvert:

Backfill underway.

100-C-7:

On hold.

100-B-14

Approximately 95% complete with excavation.

1607-B2:

Still have a few meters of pipeline to remove.

Miscellaneous:

100-B-20:

Found the oil storage tank.

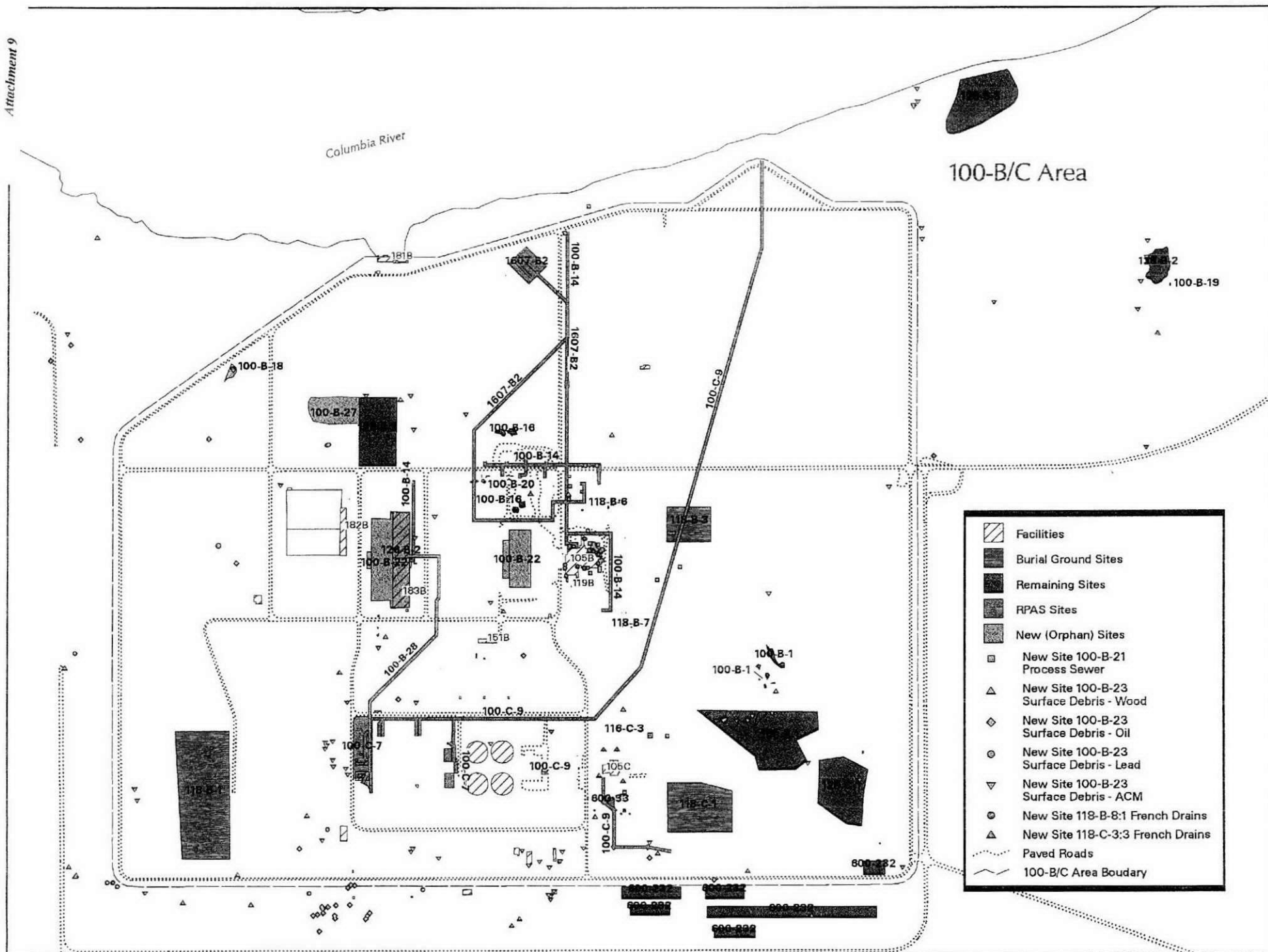
100-B-24/26: Targeted for next week.

Revegetation = Horsehoe
600-232
128-C-1
128-B-3

100 AREA / 300 AREA UNIT MANAGERS' MEETING
Groundwater/ Remedial Action Unit / Source Operable Units
January 12, 2006

ATTACHMENT 9

Dean Strom- Map of Burial Ground Sites, Remaining Sites,
RPAS, and New Orphan sites



100 AREA / 300 AREA UNIT MANAGERS' MEETING
Groundwater/ Remedial Action Unit / Source Operable Units
January 12, 2006

ATTACHMENT 10

300 Area D & D Status

300 Area D&D Status
January 12, 2005
300 Area Unit Manager Meeting

303-M, 334, 334A, 334 Tank Farm

- The foundations for 334, 334A, and the 334 Tank Farm were deferred to the 300-FF-2 remedial action due to their proximity to the 618-1 burial ground. A copy of the EPA and DOE approved deferral paper is attached for inclusion in the minutes
- 303-M inventory was higher than expected. Revised air emission estimates will be provided to EPA by January 23, 2006.

314

- Demolition was complete in December 2005 and load out of debris was completed on January 11, 2006.
- A request to defer the remaining foundation has been submitted to DOE and EPA for their consideration.

3712/3716/3713/3722

- 3716 demolition has been completed. Debris load out is ongoing.
- 3712 hazardous material removal has been completed. A fixative (paint) has been applied, as needed, to the walls and ceiling. Demolition will begin next week.
- Efforts are underway to prepare the 3713 and 3722 buildings for hazardous material removal and demolition.

333, 306-E, and 306-W

- Hazardous material removal will begin in these buildings in January 2006.

324/327

- DOE and EPA comments are being incorporated into EE/CA #2. Comment resolution should be completed before the end of January 2006.
- The public comment period for EE/CA #2 is scheduled to begin in February 2006.
- Public comment of the 324 RCRA Closure Plan is scheduled to begin in January 2006.

100 AREA / 300 AREA UNIT MANAGERS' MEETING
Groundwater/ Remedial Action Unit / Source Operable Units
January 12, 2006

ATTACHMENT 11

Deferring Removal of Building Foundations and Below Grade Structures
for the 334, 334A, and 334 Tank Farm to the 300-FF-2 Remedial Action

**DEFERRING REMOVAL OF
BUILDING FOUNDATIONS AND BELOW GRADE STRUCTURES
FOR THE 334, 334A, AND 334 TANK FARM
TO THE 300-FF-2 REMEDIAL ACTION**

December 2005

I. Introduction

Demolition of the above grade portions of the 334, 334A, and 334 Tank Farm was completed during the last quarter of Calendar Year 2005. This included removal of a portion of the Waste Acid Treatment System (WATS) pipe trench (300-224 waste site) located directly under the 334 Tank Farm. The demolition material was removed and disposed at the Environmental Restoration Disposal Facility in accordance with *Action Memorandum #1 for the 300 Area Facilities* (EPA 2005). Remaining subsurface structures and soils are recommended for deferral due to their proximity to the 618-1 Burial Ground and the Waste Acid Treatment System (WATS) pipe trench (300-224 waste site).

II. Background

The *Action Memorandum #1 for the 300 Area Facilities* (EPA 2005) and *Removal Action Work Plan #1 for 300 Area Facilities* (DOE/RL 2005) allow for the facility slab or foundation to be deferred to a later date where facilities are located above or adjacent to known or suspected 300-FF-2 Operable Unit waste sites. Considerations for deferring below-grade structures and soils include: limiting infiltration into an underlying waste site during the period between demolition and remedial action; minimizing/reducing potential exposure to contaminants from an underlying waste site; avoiding double-handling and potential cross-contamination of clean backfill material that would be excavated as part of the remedial action; and avoiding disruption of 300 Area utilities that are supporting active facilities. The decision to defer at- or below-grade structures in place must be approved by the Environmental Protection Agency (EPA) and the Department of Energy (DOE) and will be documented in the 300 Area Unit Manager Meeting minutes.

III. Discussion

The *Action Memorandum #1 for the 300 Area Facilities* (EPA 2005) states the following:

"On a case-by-case basis, the facility slab or foundation may be left in place where facilities are located above or adjacent to known or suspected 300-FF-2 OU waste sites. In these instances, clean fill/soil or other barrier may be placed over remaining contamination in accordance with an EPA-approved work plan."

IV. Activities

334 Building: The foundation and any potential soil excavation will be deferred to the 618-1 remedial action. The foundation is located directly over the 618-1 burial ground. Removal of the foundation prior to burial ground remediation could result in potential exposure of contaminants from the underlying waste site.

334A Building: After piping and equipment have been removed, the basement will be backfilled due to its proximity to the 618-1 burial ground and the WATS pipe trench. Fall hazards, as defined by OSHA 1926.501(b)(1) (i.e., unprotected sides or edges of six feet or more), will be mitigated with backfill or a barrier.

334 Tank Farm: The piping and trench located directly below the tank farm structure will be removed. The excavated areas will be backfilled and any potential soil excavation will be deferred to the 618-1 remediation.

The areas will be posted, as necessary, and the Waste Information Data System (WIDS) will be updated with available characterization data, including radiological survey of the remaining structures and GPS coordinates locating the of corners of the foundation.

V. Conclusion

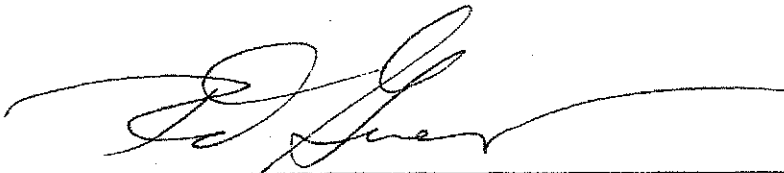
In accordance with the *Action Memorandum #1 for the 300 Area Facilities* (EPA 2005), removal of the 334, 334A, 334 Tank Farm below-grade structures and potential soil contamination, as described above, will be deferred to the 300-FF-2 remedial action. Appropriate measures have been placed on and around the remaining structures to meet industrial safety standards.

VI. References

EPA, 2005, *Action Memorandum #1 for the 300 Area Facilities*, U.S. Environmental Protection Agency, Region 10, Seattle, Washington.

DOE/RL, 2005, *Removal Action Work Plan #1 for 300 Area Facilities*, U.S. Department of Energy, Richland Operations Office, Richland, Washington

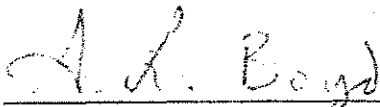
**APPROVAL TO DEFER REMOVAL OF THE
BELOW GRADE STRUCTURES AND BUILDING FOUNDATIONS
FOR THE 334, 334A, AND 334 TANK FARM**



R. F. Guercia, Project Manager
U.S. Department of Energy, Richland Operations Office

12/21/2005

Date



A. L. Boyd, Project Manager
United States Environmental Protection Agency

12/21/2005

Date

100 AREA / 300 AREA UNIT MANAGERS' MEETING
Groundwater/ Remedial Action Unit / Source Operable Units
January 12, 2006

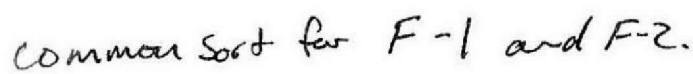
ATTACHMENT 12

FY06 / FY07 Remediation Work Plan

100 AREA / 300 AREA UNIT MANAGERS' MEETING
Groundwater/ Remedial Action Unit / Source Operable Units
January 12, 2006

ATTACHMENT 13

Common Sort for F-1 and F-2 Diagram



100 AREA / 300 AREA UNIT MANAGERS' MEETING
Groundwater/ Remedial Action Unit / Source Operable Units
January 12, 2006

ATTACHMENT 14

End State and Final Closure Risk Assessment Status

End State and Final Closure Risk Assessment Status

100/300 Area RCBRA Component

- **Sampling:** Safely completed installation of equipment to evaluate pore-water, clams and macroinvertebrates in the Columbia River. Continued groundwater sampling. Will begin surface water/pore-water/sediment sampling in the near-shore on Monday, and sculpin sampling will occur in Jan and Feb.
- **SAP:** Meet with EPA and Ecology next week on last round of comments. Redline version of document will be ready this afternoon, with clean copies for approval to follow.

100-B/C Pilot

- **Risk Assessment Report:** Preparing Draft B 100-B/C Pilot Risk Assessment report, with accompanying technical memo explaining the sample preparation issue, overview of potential impacts, and path forward. Final results will appear in the 100/300 Area risk assessment report.
- **Comment disposition:** Comment matrix should be transmitted next week.

Columbia River Component

- **Data compilation summary** will be available at the end of January
- **Continuing to evaluate data** for the purpose of bounding the risk assessment scope for the Columbia River Component. Draft data evaluation and scoping report is scheduled to be submitted to RL in April.

Source and Groundwater Assessment Integration Strategy

- **Planning:** Met with DOE, regulatory agencies and groundwater contractors regarding the content of the document. Outline was drafted.
- **Document:** Draft is in progress, and communication will continue to ensure there is continued agreement on the strategy and content of the document.